

(12) **United States Patent**  
**Salo et al.**

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(54) **CLIENTS REMOTE ACCESS TO ENTERPRISE NETWORKS EMPLOYING ENTERPRISE GATEWAY SERVERS IN A CENTRALIZED DATA CENTER CONVERTING PLURALITY OF DATA REQUESTS FOR MESSAGING AND COLLABORATION INTO A SINGLE REQUEST**

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(52) **U.S. Cl.** ..... **709/217; 709/201; 709/202; 709/203; 709/218; 709/219; 707/10; 707/102**

(58) **Field of Search** ..... **709/201-203, 709/217-219; 707/10, 102**

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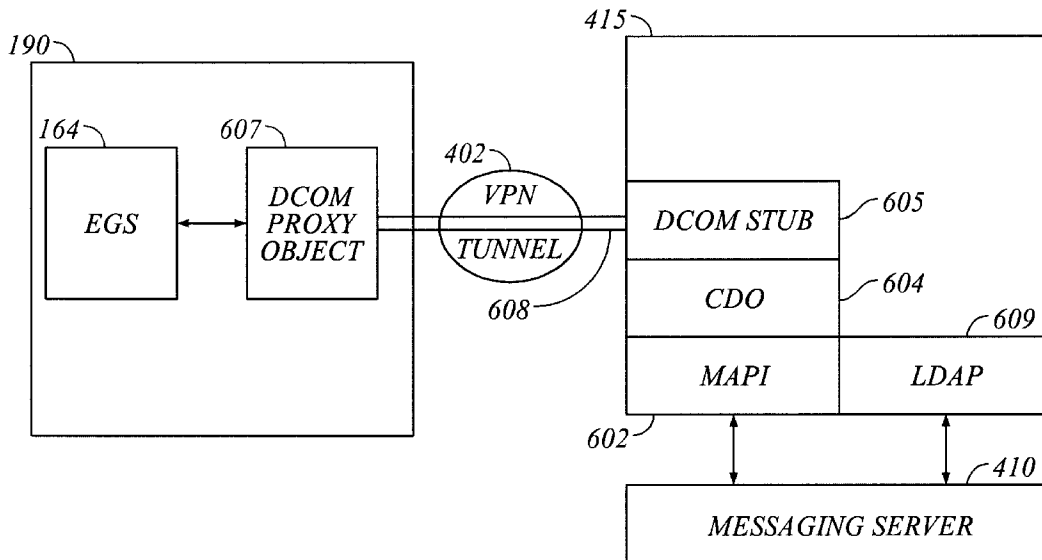
\* cited by examiner

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(57) **ABSTRACT**

A computer system includes an enterprise gateway server and a remote gateway server connected via a data network, such as the Internet, that is relatively inefficient compared to typical private networks. The remote gateway server interfaces the enterprise gateway server to corporate messaging and collaboration data stored locally relative to the remote gateway server. The enterprise gateway server converts multiple data requests for the messaging and collaboration data into a single higher-level data request that is transmitted across the data network. The remote gateway server receives the request and converts the single high level request back into the original multiple request format for presentation to the messaging and collaboration database.

**26 Claims, 10 Drawing Sheets**



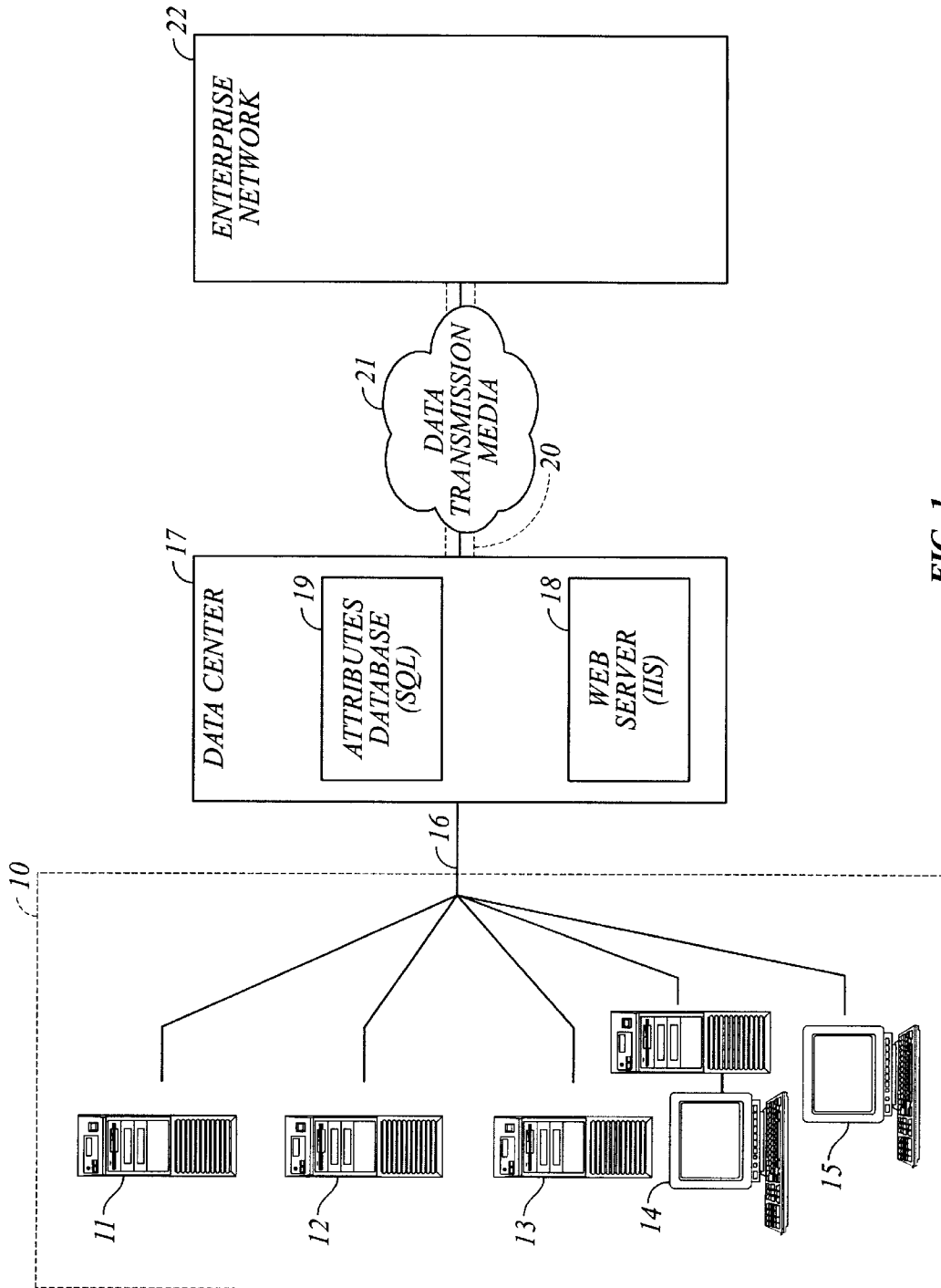


FIG. 1

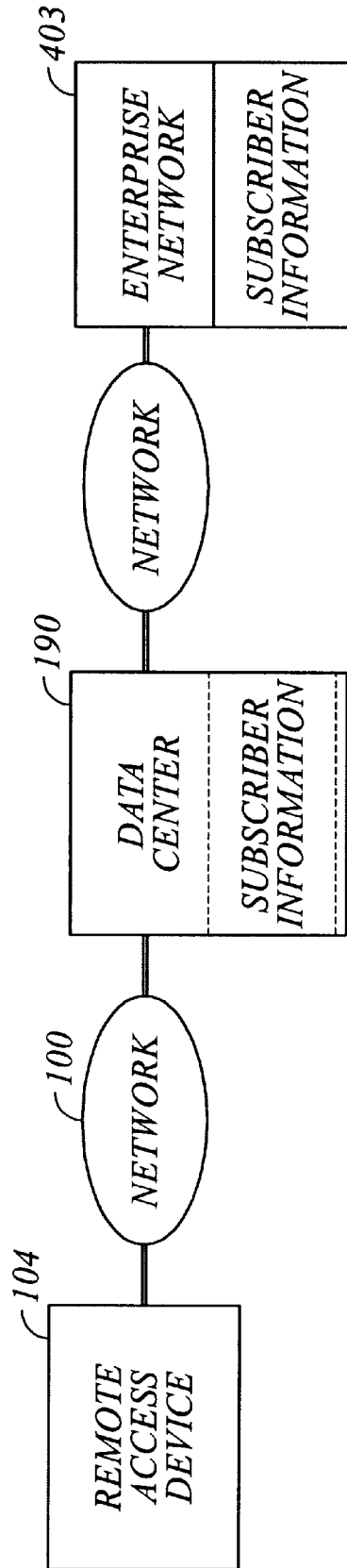


FIG. 1A

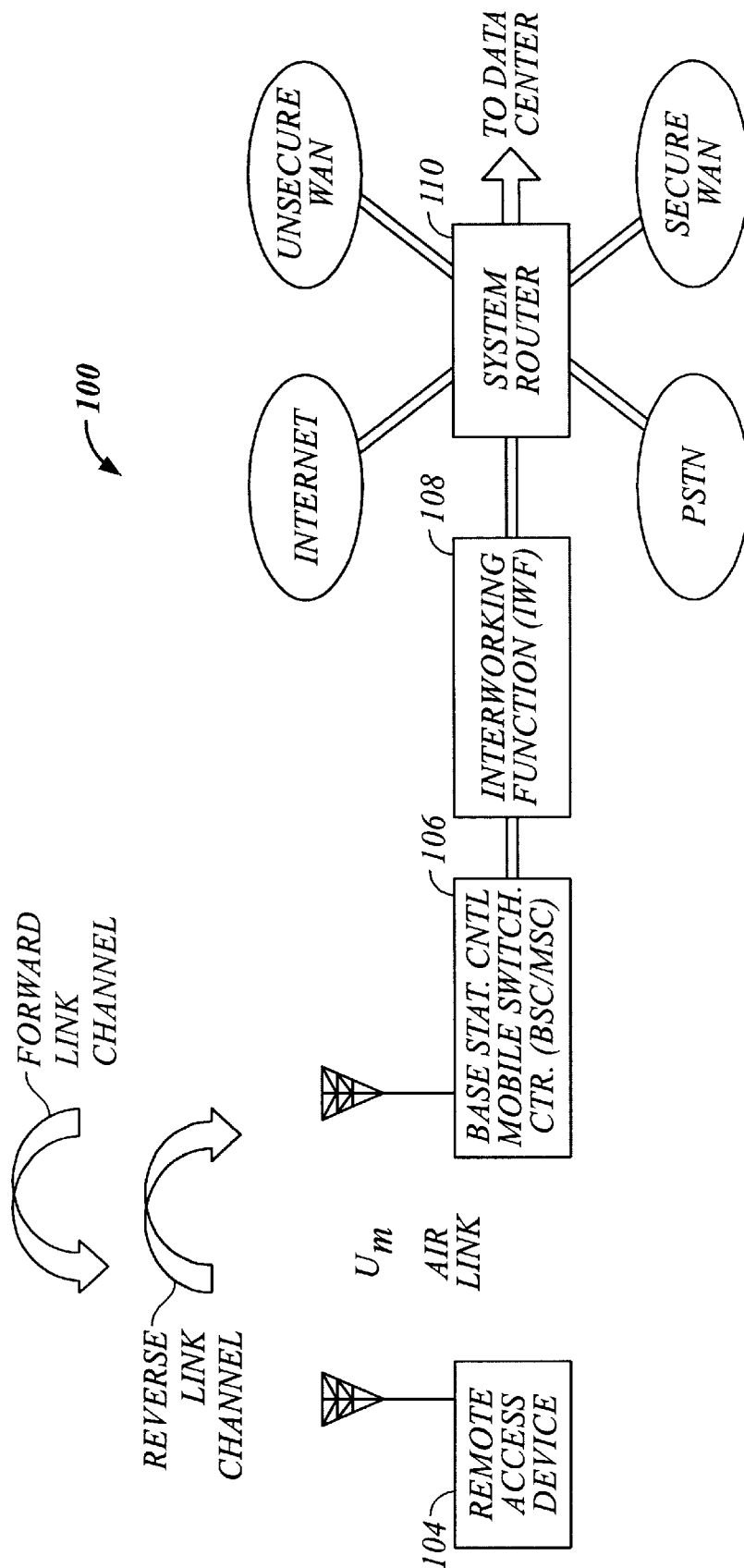


FIG. 1B

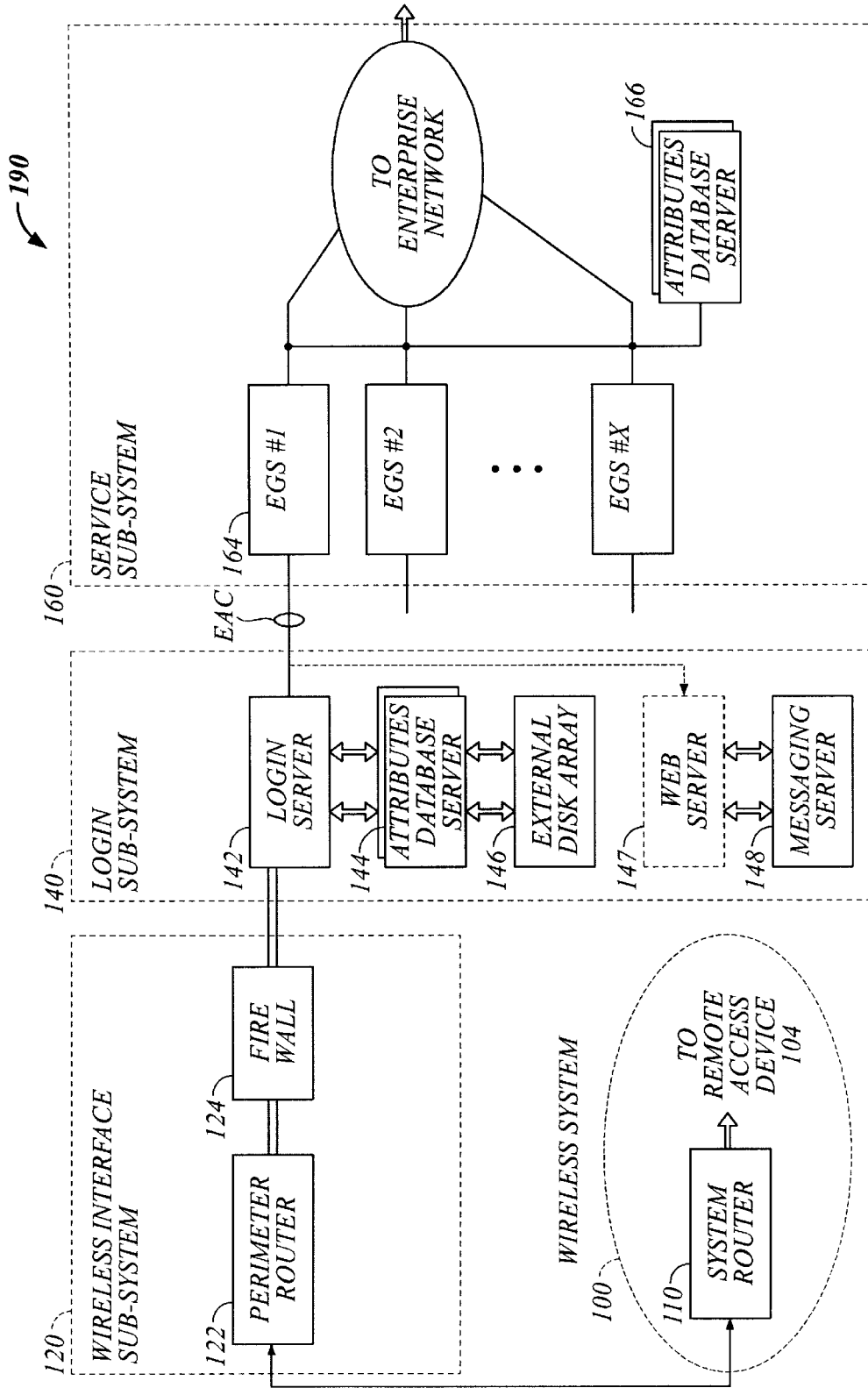


FIG 1C

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